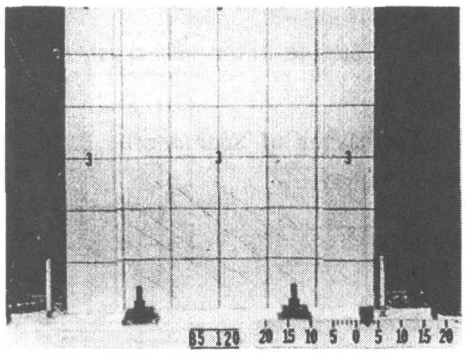
DAMAGE PATTERNS AND HYSTERETIC RESPONSE

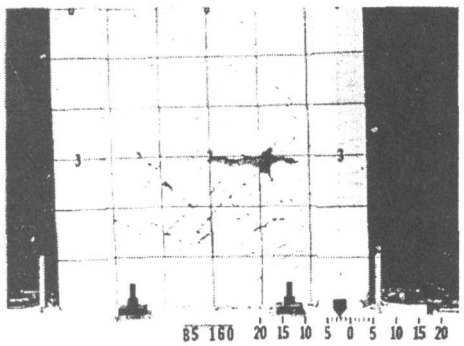
System:	**Reinforced Concrete**
Component Type:	**Isolated Wall or Stronger Wall Pier**
Predominant Behavior Mode:	**Flexure/Web Crushing**
Secondary Behavior Mode:	—

RC1C **Example 2 of 3**

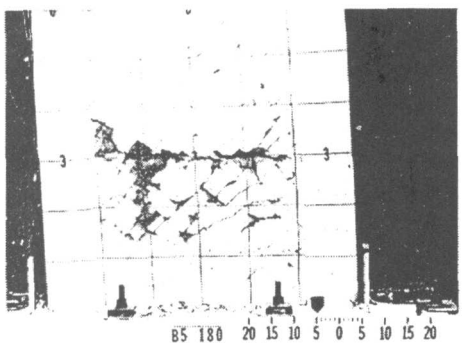
Reference:	Corley, Fioralo, Oesterle (1981), Oesterle et al. (1976), Oesterle et al. (1979)
Specimen:	B5



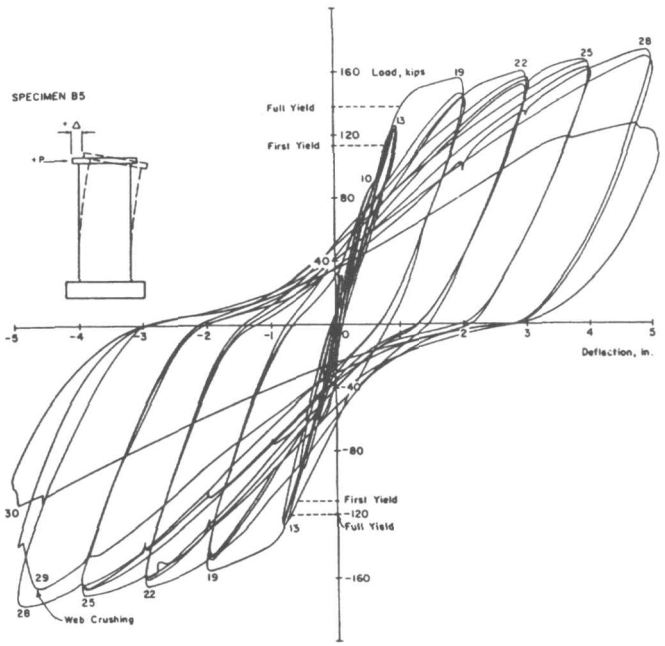
Damage at +3-in. deflection
$\Delta = 3$ in $\quad \Delta/h_w = 0.017 \quad \lambda_Q = 1.0$



Damage at -3-in. deflection
$\Delta = 3$ in $\quad \Delta/h_w = 0.017 \quad \lambda_Q = 1.0$



Damage after web crushing
$\Delta = 5$ in $\quad \Delta/h_w = 0.028 \quad \lambda_Q = 0.6$



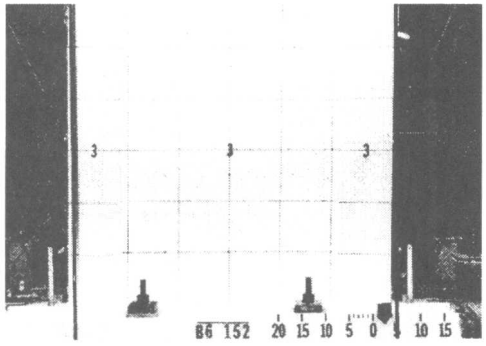
Load versus deflection relationship

DAMAGE PATTERNS AND HYSTERETIC RESPONSE

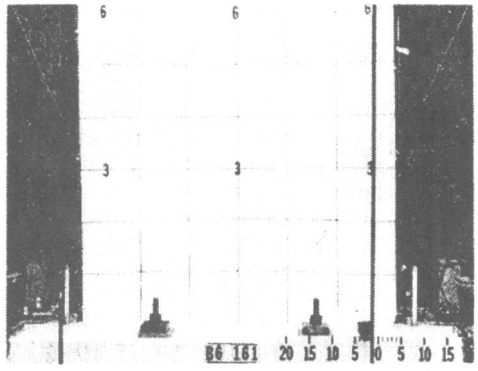
System:	**Reinforced Concrete**
Component Type:	**Isolated Wall or Stronger Wall Pier**
Predominant Behavior Mode:	**Flexure/Web Crushing**
Secondary Behavior Mode:	—

RC1C **Example 3 of 3**

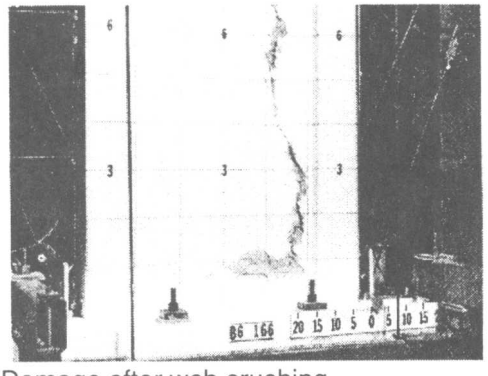
Reference:	Corley, Fioralo, Oesterle (1981), Oesterle et al. (1976), Oesterle et al. (1979)
Specimen:	B6



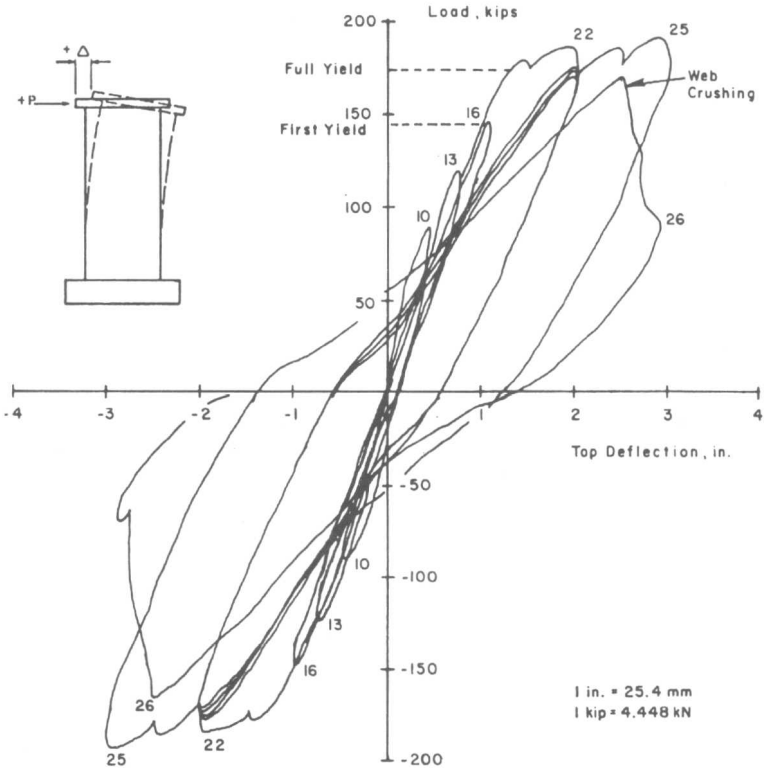
Damage at +3-in. deflection
$\Delta = 3$ in $\quad \Delta/h_w = 0.017 \quad \lambda_Q = 1.0$



Damage at -3-in. deflection
$\Delta = 3$ in $\quad \Delta/h_w = 0.017 \quad \lambda_Q = 1.0$



Damage after web crushing
$\Delta = 3$ in $\quad \Delta/h_w = 0.017 \quad \lambda_Q = 0.3$



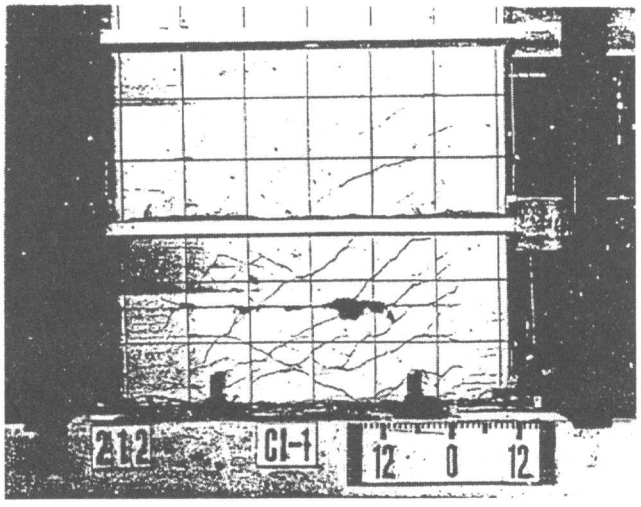
Load versus deflection relationship

DAMAGE PATTERNS AND HYSTERETIC RESPONSE

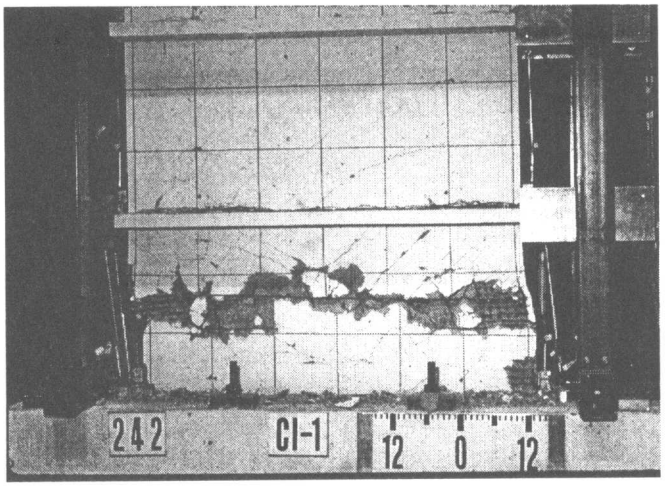
System:	**Reinforced Concrete**
Component Type:	**Isolated Wall or Stronger Wall Pier**
Predominant Behavior Mode:	**Flexure/Sliding Shear**
Secondary Behavior Mode:	—

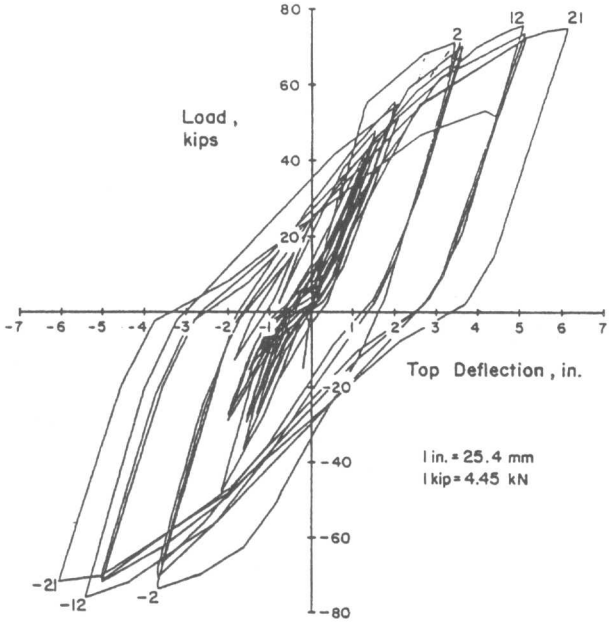
RC1D **Example 1 of 2**

Reference:	Corley, Fioralo, Oesterle (1981), Shiu et al. (1981)
Specimen:	CI-1



Crack pattern of specimen CI-1 at end of phase II.





Load versus top deflection relationship for specimen CI-1.